

**IN THE ABSTRACT**

*Please add the abstract as follows. The abstract is also submitted on a separate sheet with the response.*

A device for processing digital data. A module (M2, M3) produces on a data vector of the frequency domain  $Z(k)$ , wherein  $K$  varies from 0 to  $N-1$ , a convolution with a function  $U$ , convolution which corresponds to a cancellation in the time domain of the samples of the inverse transform of  $Z(k)$ . The function  $U$  is in the form:  $U(k) = \sin c(k-k_0/2) \cdot e^{-j\pi(\alpha(k-k_0/2) \cdot P(k))}$ , wherein  $K_0$  is a constant integer and  $P(k)$  a weighting window symmetrical about  $k_0$ .